

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Tomohiro SHINAGAWA et al.

Application No.: New U.S. National Stage of PCT/JP2004/015104

Filed: March 21, 2006

Docket No.: 127425

For: HYDROGEN-FUELED INTERNAL COMBUSTION ENGINE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

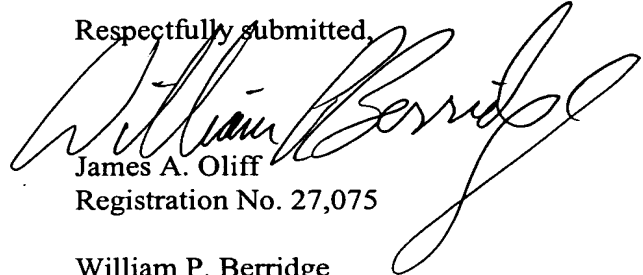
Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. Relevance of one or more non-English language reference is discussed in the present specification. See References 5 and 7-9.
- ☒ 3. One or more reference cited herein was cited in the International Search Report. An English language version of the International Search Report is attached for the Examiner's information. See References 10-12.
- ☒ 4. In accordance with 37 CFR §1.98(a)(2)(ii), copies of any U.S. patents and patent application publications are not attached.
- ☒ 5. A concise explanation of the relevance of one or more non-English language reference cited herein appears in the Appendix attached hereto. See References 1-12.
- ☒ 6. An English language Abstract of one or more non-English language reference is attached hereto. See References 4-12.
- ☒ 7. A computer-generated English language translation of one or more Japanese Patent Publication cited herein has been obtained from the website of the Japanese Patent Office ([<http://www.jpo.go.jp>]), and is attached, but has not been reviewed for accuracy. See References 4-5 and 9-12.



8. Reference 1 corresponds to reference 10. Reference 2 corresponds to reference 4. Reference 3 corresponds to reference 11.

Respectfully submitted,



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Form PTO-1449 (REV. 1/06)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 127425		APPLICATION NO. New U.S. National Stage of PCT/JP2004/015104	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Tomohiro SHINAGAWA et al. FILING DATE March 21, 2006			
U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No.	Document Number	Date	Name			
	1.	US 5,275,000	1/4/1994	COFFINBERRY ET AL.			
	2.	US 5,373,818	12/20/1994	UNGER			
	3.	US 2003/0168024 A1	9/11/2003	QIAN ET AL.			
FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.	Document Number	Date	Country	With English Abstract	With English Translation	
	4.	JP A 2000-297706	10/24/2000	JAPAN	X	X	
	5.	JP A 2002-255503	9/11/2002	JAPAN	X	X	
	6.	JP A 1-170752	7/5/1989	JAPAN	X		
	7.	JP B2 3-9091	2/7/1991	JAPAN	X		
	8.	JP B2 5-18761	3/12/1993	JAPAN	X		
	9.	JP A 2001-110437	4/20/2001	JAPAN	X	X	
	10.	JP A 6-159096	6/7/1994	JAPAN	X	X	
	11.	JP A 2003-184667	7/3/2003	JAPAN	X	X	
	12.	JP A 2000-213444	8/2/2000	JAPAN	X	X	
OTHER DOCUMENTS							
Examiner Initials	Cite No.	(Including Author, Title, Date, Pertinent Pages, etc.)					
EXAMINER					DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Date: March 21, 2006

INFORMATION DISCLOSURE STATEMENT

The applicant is aware of the following documents:

1. Prior related Japanese laid-open patent publication No. 2002-255503 (Applicant: Toyota)

Document 1 is described in the specification of the present application.

2. Prior related Japanese laid-open patent publication No. 2000-297706 (corresponding to EP 0638706 A1 and US Patent No. 5373818)

Document 2 discloses that a variable valve mechanism for changing the lift amount and operating angle in accordance with the rotation position of a control shaft comprises a lost motion spring.

3. Prior related Japanese laid-open patent publication No. Hei 01-170752

Document 3 discloses that a variable valve mechanism for changing the lift amount and operating angle in accordance with the rotation position of a control shaft comprises a lost motion spring.

4. Prior related Japanese patent publication No. Hei 03-9091

Document 4 discloses that a variable valve mechanism for changing the lift amount and operating angle in accordance with the rotation position of a control shaft comprises a lost motion spring.

5. Prior related Japanese patent publication No. Hei 05-18761

APPENDIX

Document 5 discloses that a variable valve mechanism for changing the lift amount and operating angle in accordance with the rotation position of a control shaft comprises an assist spring.

6. Prior related Japanese laid-open patent publication No. 2001-110437

Document 6 discloses that a variable valve mechanism for changing the lift characteristic in accordance with the rotation position of a control shaft comprises a gear train including a worm gear.

7. Prior related Japanese laid-open patent publication No. Hei06-159096 (corresponding to US Patent No. 527500)

Document 7 discloses that a variable valve mechanism for changing the lift characteristic in accordance with the rotation position of a control shaft comprises a mechanism for pressing the control shaft toward one direction to suppress the occurrence of gear backlash.

8. Prior related Japanese laid-open patent publication No. 2003-184667 (corresponding to US Patent Application Publication No. US 2003/0168024 A1)

Document 8 discloses that a part of gear train is soaked in the lubricating oil.

9. Prior related Japanese laid-open patent publication No. 2000-213444

Document 9 discloses that a fundamental circular part and a lift circular part are formed on a cam surface.